NETWORKS

An International Journal

AUGUST 2000 VOLUME 36, NUMBER 1

Volume Contents

The Cardinality-Constrained Shortest Path Problem in 2-Graphs 1
G. Dahl and B. Realfsen

A Characterization of the Two-Commodity Network Design Problem 9
T. Sastry

Constrained Length Connectivity and Survivable Networks 17
W. B. Ameur

On the Cycle Polytope of a Directed Graph 34
E. Balas and M. Oosten

Minimizing the Complexity of an Activity Network 47
J. Kamburowski, D. J. Michael, and M. F. M. Stallmann

New Polynomial-Time Cycle-Canceling Algorithms for Minimum-Cost Flows 53
P. T. Sokkalingam, R. K. Ahuja, and J. B. Orlin

Realizability of p-Point, q-Line Graphs with Prescribed Maximum Degree and Line Connectivity or Minimum Degree 64
D. DiMarco

SEPTEMBER 2000 VOLUME 36, NUMBER 2

A Polyhedral Study of the Asymmetric Traveling Salesman Problem with Time Windows 69
N. Ascheuer, M. Fischetti and M. Grötschel

Efficient Modeling of Travel in Networks with Time-Varying Link Speeds 80
M. E. T. Horn

Embedding Interconnection Networks in Grids via the Layered Cross Product 91
G. Even and S. Even

Impact of Topographic Information on Graph Exploration Efficiency 96
P. Panaite and A. Pelc

The Local Steiner Problem in Normed Planes 104
K. J. Swanepoel

Channel Assignment and Weighted Coloring 114
C. McDiarmid and B. Reed

Equivalent Nondegenerate L-Shapes of Double-Loop Networks 118
C. Chen and F. K. Hwang

Compounding of Gossip Graphs 126
G. Fertin and R. Labahn

Tabu Search for the Steiner Problem in Graphs 138
C. C. Ribeiro and M. C. De Souza

OCTOBER 2000 VOLUME 36, NUMBER 3

Minimum-Diameter Covering Problems 147
E. M. Arkin and R. Hassin

The Graph Voronoi Diagram with Applications 156
M. Erwig

On the Unilateral (Δ, D^*)-Problem 164
J. Gómez, E. A. Canale, and X. Muñoz

Approximating Multiroot 3-Outconnected Subgraphs 172
Z. Nutov

Fault-Tolerant Routings in Chordal Ring Networks 180
L. Barrière, J. Fàbrega, E. Simó, and M. Zaragozá

Low-Congested Interval Routing Schemes for Hypercubelike Networks 191
S. Cicerone, G. Di Stefano, and M. Flammini

DECEMBER 2000 VOLUME 36, NUMBER 4

The Full-Degree Spanning Tree Problem 203
R. Bhatia, S. Khuller, R. Pless, and Y. J. Sussmann

Topological Expansion of Multiple-Ring Metropolitan Area Networks 210
S. Chamberland and B. Sansò

Hamiltonian-Laceability of Star Graphs 225
S.-Y. Hsieh, G.-H. Chen, and C.-W. Ho

An Aggregation Approach to Solving the Network p-Median Problem with Link Demands 233
P. Zhao and R. Batta

Author Index to Volume 36 245

Subject Index to Volume 36 246

Volume Contents